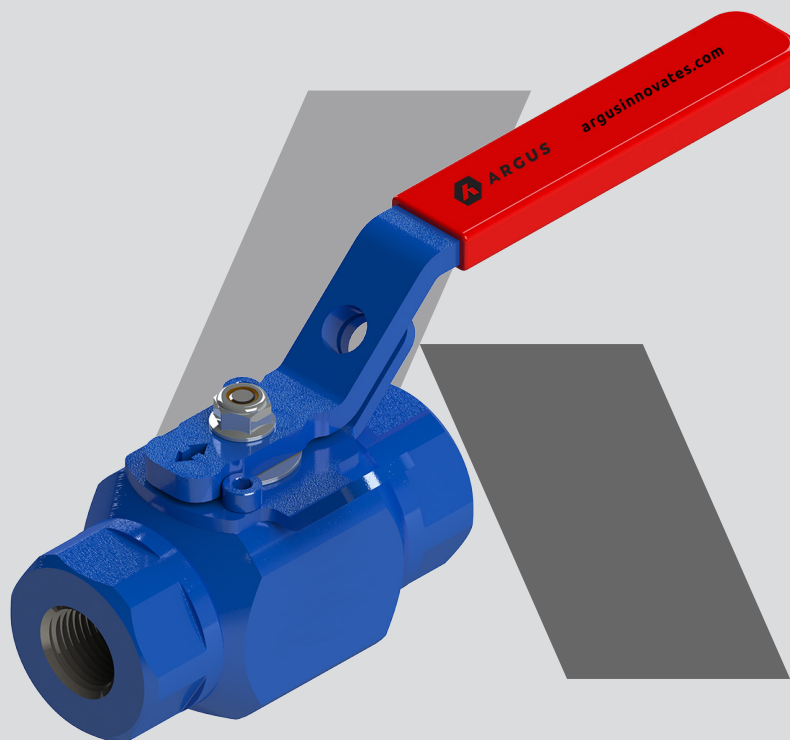


Small Diameter Ball Valve

1/2" - 3/4" - 1"
Forged Ball Valves - 4,000 PSI



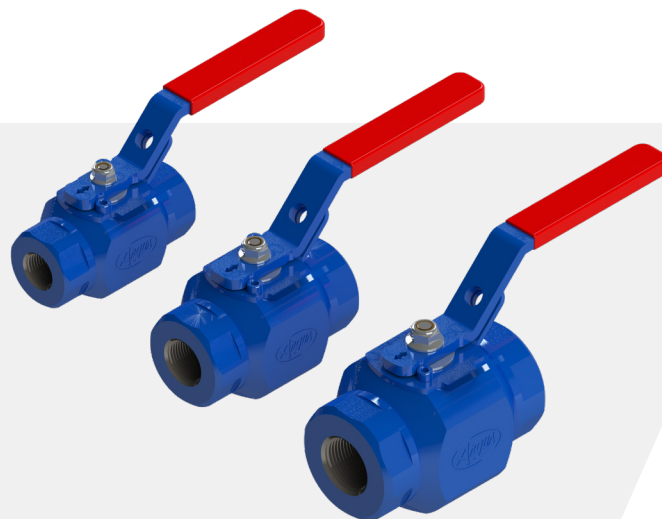
ARGUS

Manufacturing Intelligent Solutions

SPECIFICATIONS



Edmonton, AB, Canada



**We are committed to product safety and quality.
Argus Ball Valves conform to the following standards:**

API

STD 598
STD 607
SPEC Q1

AMERICAN PETROLEUM INSTITUTE

Valve Inspection and Testing
A350-LF2, Class 1
Fire Test for Quarter-turn Valves and Valves Equipped with Nonmetallic Seats

ASME

B16.34
B1.20.1
B31.3

AMERICAN SOCIETY OF MECHANICAL ENGINEERS

Valves - Flanges, Threaded and Welding End
Pipe Threads, General Purpose
Process Piping

ISO

ISO 9001
ISO 5208
ISO 5211
ISO 10497
ISO 15156

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION

Quality Management System
Industrial Valves - Pressure Testing of Metallic Valves
Industrial Valves - Part Turn Actuator Attachment
Testing of Valves - Fire Type Testing
Materials for Use in H₂S Containing Environments in Oil and Gas Production

MSS

MSS SP-25

MANUFACTURERS STANDARDIZATION OF THE VALVE AND FITTINGS INDUSTRY

Standard Marking System for Valves, Fittings, Flanges and Unions

NACE

MR0175

NATIONAL ASSOCIATION OF CORROSION ENGINEERS

Materials for Use in H₂S Containing Environments in Oil and Gas Production

CSA

Z245.15

CANADIAN STANDARDS ASSOCIATION

Steel Valves

CRN

OC18095.2

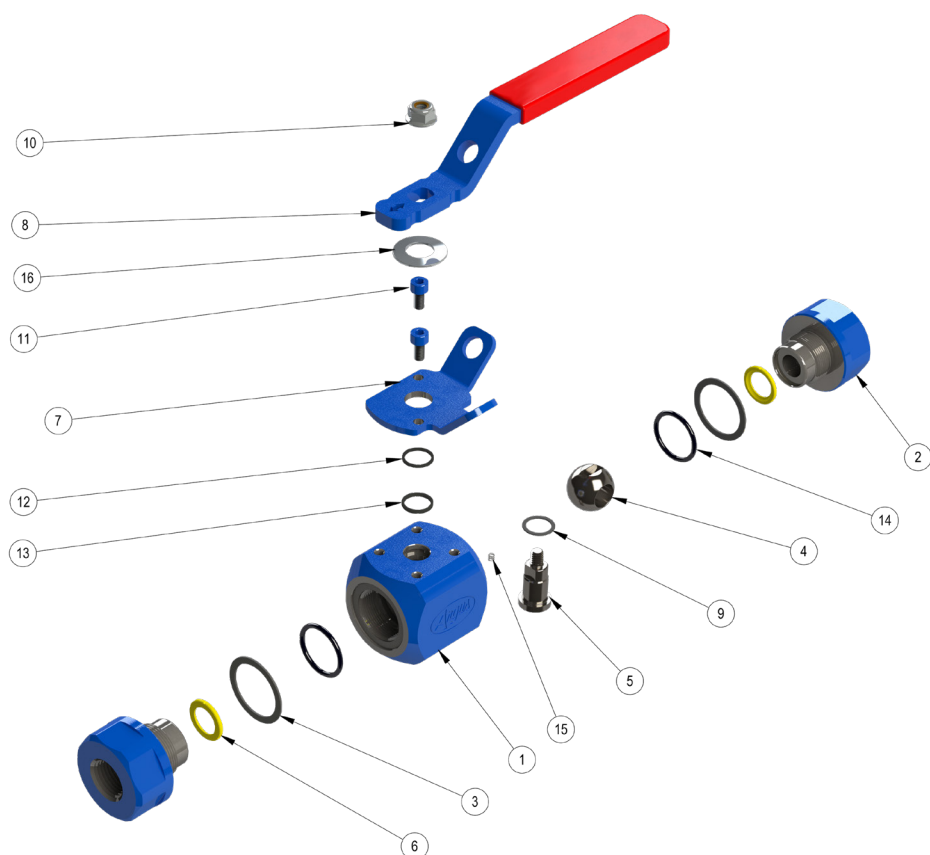
CANADIAN REGISTRATION NUMBER

Ball Valves

Pressure rated to 4000 W.O.G. (+250°F to -50°F, standard materials only)

Sour - Low Temp (-50°F), 316 Stainless - Low Temp (-50°F), 316 Stainless - Standard Temp (-20°F)

EXPLODED VIEW WITH PARTS LIST

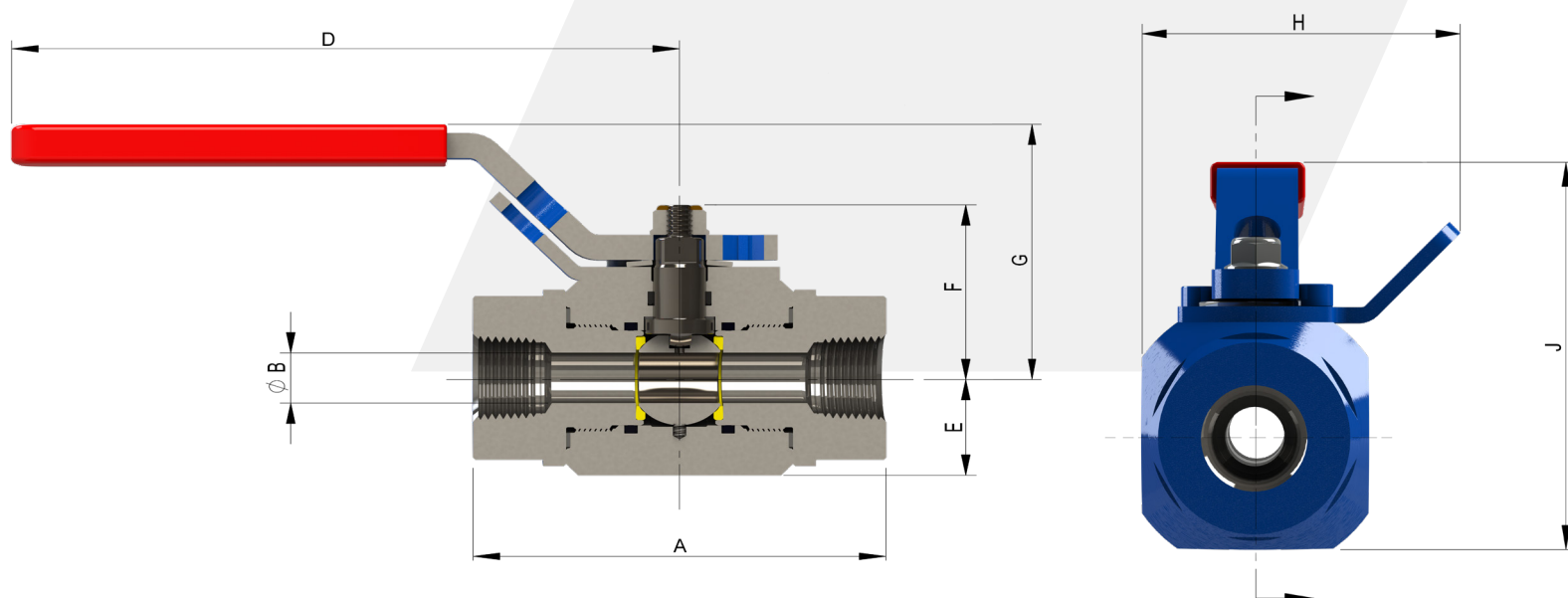


ITEM	QTY.	DESCRIPTION
1	1	Main Body
2	2	End Connection, FNPT
3	2	Fire Safe Gasket
4	1	Ball
5	1	Stem
6	2	Seat
7	1	Locking Plate
8	1	Operating Handle
9	1	Thrust Bearing
10	1	Flange Locknut
11	2	Handle Stop Cap Screw
12	1	Back-up Ring
13	1	Stem O-ring
14	2	Body O-ring
15	1	Anti-static Spring
16	1	Belleville Washer

CONSIDER THESE BENEFITS

- Materials compliant to NACE MR0175 for sour service.
- Temperature rating -50°F to +250°F (-46°C to +121°C).
- Pressure rated to 4,000 psi W.O.G.
- API 607 Fire Safe - graphite secondary gasket ensures safety in the event of a fire. The ball and stem realign, creating a metal to metal seal.
- Blowout preventative stem enhances safety.
- Valve bores .500", .750" and 1.00".
- Seat design ensures sealing at high and low ends of pressure rating.
- Lockout design for additional security and safety.
- O-ring stem seal, packing is not required, reducing maintenance requirements.
- Low operating torque provides ease of operation.
- Antistatic design reduces ignition hazards.
- Standard ISO 5211 mounting for simple valve automation.

DIMENSIONAL DRAWINGS & CHARTS



VALVE SIZE NPT		DIMENSION																WEIGHT	
		A		B		D		E		F		G		H		J			
<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>	<i>lb</i>	<i>kg</i>
1/2"	13	3.88	98	0.50	13	6.25	159	0.97	25	1.72	44	2.50	64	2.75	70	3.47	88	3.4	1.5
3/4"	19	4.25	108	0.75	19	6.50	165	1.23	31	2.03	52	3.00	76	3.13	80	4.23	107	5.2	2.4
1"	25	4.75	121	1.00	25	6.88	175	1.52	39	2.40	61	3.50	89	3.60	91	5.02	127	8.4	3.8

Mounting - Please see TB-BV-002

Applications

- Oil & Gas
- Refining
- Petrochemical
- Water / wastewater
- Other process piping applications

STANDARD TRIM MATERIALS

Component	Sour - Low Temp	Stainless - Low Temp
Body	A350-LF2, Class 1	A479-316
End Connections	A350-LF2, Class 1	A479-316
Ball	A351-CF8M c/w ENC	A351-CF8M c/w ENC
Stem	AISI 4130 c/w ENC	A479-XM-19
Seat	Devlon V-API	PEEK
Stem Thrust Washer	Nylatron GS	PEEK
Primary Seals	HSN	HSN
Secondary End Connection Seal	Graphite	Graphite

Optional: Spring Return Handle
Socket Weld / Male NPT End Connections
Alternate Trim Materials



REGISTRATION NO. Q1-0424

Certificate of Registration

The American Petroleum Institute certifies that the quality management system of

ARGUS MACHINE CO. LTD.
5820 - 97th Street NW
Edmonton, AB
Canada

has been assessed by the American Petroleum Institute and found to be in conformance with the following:

API Specification Q1

The scope of this registration and the approved quality management system applies to the:

**Design, Manufacture and Assembly of Pigging Systems, Pressure Switches,
Wiring Harnesses, Cementing Equipment and Valves;
Manufacture of Couplings, Oilfield Connectors and Drill Stem Subs;
Provision of General Machining and Threading Services**

API approves the organization's justification for excluding:

No Exclusions Identified as Applicable



Effective Date: AUGUST 26, 2020
Expiration Date: SEPTEMBER 20, 2023
Registered Since: DECEMBER 18, 2006

Vice President of Global Industry Services

This certificate is valid for the period specified herein. The registered organization must continually meet all requirements of API Spec Q1, Specification for Quality Programs for the Petroleum, Petrochemical and Natural Gas Industry, and the requirements of the Registration Agreement. Registration is maintained and regularly monitored through annual full system audits. This certificate has been issued from API offices located at 200 Massachusetts Avenue, NW Suite 1100, Washington, DC 20001-5571, U.S.A. It is the property of API, and must be returned upon request. To verify the authenticity of this certificate, go to www.api.org/compositeid.

2018-154 | 02.18 | Digital



Certificate of Registration

APIQ1® REGISTRATION NUMBER

0686

This certifies that the quality management system of

ARGUS MACHINE CO. LTD.
5820 - 97th Street NW
Edmonton, AB
Canada

has been assessed by the American Petroleum Institute Quality Registrar (APIQ1®) and found it to be in conformance with the following standard:

ISO 9001:2015

The scope of this registration and the approved quality management system applies to the

**Design, Manufacture and Assembly of Pigging Systems, Pressure Switches,
Wiring Harnesses, Cementing Equipment and Valves;
Manufacture of Couplings, Oilfield Connectors and Drill Stem Subs;
Provision of General Machining and Threading Services**

APIQ1® approves the organization's justification for excluding:

No Exclusions Identified as Applicable

Effective Date: AUGUST 26, 2020
Expiration Date: SEPTEMBER 20, 2023
Registered Since: SEPTEMBER 20, 2011

Vice President of Global
Industry Services



This certificate is valid for the period specified herein. The registered organization must continually meet all requirements of APIQ1's Registration Program and the requirements of the Registration Agreement. Registration is maintained and regularly monitored through annual full system audits. Further clarification regarding the scope of this certificate and the applicability of ISO 9001 standard requirements may be obtained by consulting the registered organization. This certificate has been issued from APIQ1 offices located at 200 Massachusetts Avenue, NW Suite 1100, Washington, DC 20001-5571, U.S.A. It is the property of APIQ1, and must be returned upon request. To verify the authenticity of this certificate, go to www.api.org/compositeid.



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